

POLARIS infúzní clona

Siliconate hydro insulation for moist masonry

1. Product characteristics

Siliconate hydro insulation for moist masonry in form of frozen cartridge

- ideal for permanent drying of all types of masonry
- easy and quick application
- exact dosage
- application from only one side of the wall, usually from exterior
- non-flammable, odorless
- environmentally friendly

2. Use

POLARIS infúzní clona is used to create a waterproof barrier (layer) by inserting frozen cylindrical cartridges of water based solution of siliconate into predrilled holes in moist masonry. These cartridges gradually melt in the masonry and the solution penetrates into the pores of bricks and mortar, creating impermeable barrier against rising water. **POLARIS infúzní clona** is suitable for drying all types of masonry including mixed and stone masonry. If the material is to be used in new construction, where the mortar is alkaline, please contact the manufacturer.

3. Physical and mechanical properties

Color	clear
Freezing point (°C)	-14
Density (g/cm ³)	1.13 ± 0.1

4. Test certificates

The product is certified according to § 12 of Act No. 22/1997 Coll. and according to § 6 of Government Regulation No. 163/2002 Coll. as amended. Continuous independent production quality control is provided by AZL 1687 LABBET®. Supervision of Quality Management Systems, Environmental Relations and OSH is carried out by Certification Body No. 3029

5. Instruction for preparation and application

Application procedure of **POLARIS infúzní clona** is in detail specified in the respective technological procedure issued by BETOSAN s.r.o.

The principle of this method is following: holes of 24 mm diameter are drilled horizontally into the masonry with horizontal spacing of 110 mm. Depth of the holes should be 50 mm less than depth of the whole structure. Before the actual use, it is necessary to freeze adequate number of cartridges in freezer with -18°C temperature. Frozen material is then removed from its plastic cartridge and immediately placed into the predrilled holes in prescribed quantity. Material is re-applied after melting of the preceding material and its seepage into the pores of the masonry. The application procedure is repeated 3 to 4 times. In less complicated conditions 2 applications are adequate. The holes in masonry should be after the whole application procedure filled with hydro insulation mortar **WATERFIX XP TH**.

The time of drying for masonry wall is dependent on its thickness, absorbability of the materials, temperature and intensity of ventilation. The drying effects of the **POLARIS infúzní clona** will be usually apparent in 2 to 5 weeks after application. It is recommended to remove all old moist plaster after the application of the infusion barrier. Removal of plaster and replacement by new sanitation plaster significantly accelerates the rate of drying in such treated masonry. New restoration plaster can be applied on masonry 7 to 14 days after application of **POLARIS infúzní clona**. It is necessary to remove old plaster to about 0.5 meter above the level of moisture in the masonry, it is recommended to clean the joints in masonry and remove any loose materials, debris and dust. Only on such prepared surface can successfully be applied the restoration plaster **SANOFIX** (according to WTA 2-9-20/D).

6. Specific consumption

Usually 5 cartridges are used in 1 meter of drilled hole. Usually two to three applications are necessary. Four applications are necessary only in more difficult conditions (high moisture). Standard examples of application are presented in following table.

Wall thickness (cm)	Number of cartridges inserted into 1 hole at one moment	Number of applications	Total number of cartridges used in 1 meter of wall
45	2	2	36
45	2	3	54
45	2	4	72
60	3	2	54
60	3	3	81
60	3	4	108
90	4	2	72
90	4	3	108
90	4	4	144

7. Packing and storage

The product is packaged in paper boxes containing 50 cartridges. Every cartridge is supplied in an individual plastic wrap. Storage time in original packaging is unlimited.

8. Health protection at work

POLARIS infúzní clona is at normal temperature water based solution with higher alkalinity. Therefore it is necessary to wear protective glasses, rubber gloves, protective clothing etc. during work. If eyes or skin were affected by the material it is necessary to immediately clean affected area with a large volume of water. If the material is ingested it is necessary to seek medical help immediately. Store separated from foods.

Issued MSDS meets the requirements of EC-Regulation 1907/2006, Article 31.

Because the product meets the criteria for classification as hazardous, it is necessary to provide the recipient or carriers with MSDS.

In countries where regulation REACH (para. 33.1): EU regulation on chemicals and their safe use (REACH: EC 1907/2006) is valid, professional users and distributors must be provided with following information automatically and without request: *This product is subject to Regulation (EC) no. 1907/2006 (REACH). It does not contain any substances that could be released from product under normal or reasonably foreseeable conditions of use. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from candidate list published by the European Chemicals Agency in concentrations above 0.1% (w / w).*

9. Waste disposal

During disposal of contaminated packages or clearing debris from product, it is necessary to follow the Act No. 185/2001 Coll. on waste, as amended.

10. Important notice

All information mentioned above, especially advice for processing and application of our products, is based on our knowledge from the development of chemical products and on years of experience with applications in practice at standard conditions, and proper storage and use. Due to the differing conditions during processing, high count of products, varying nature and modifications of base and other external influences, the procedure based on the information provided or on other written or oral recommendations, may not always ensure satisfactory working results. BETOSAN s.r.o. assumes no liability for provided advice or recommendation. The applicator must prove, that he submitted complete information on time and in writing which is necessary for a proper detailed assessment by BETOSAN s.r.o. The applicator must test the suitability of the products for the intended application. Proprietary rights of third parties, above all, must be taken into account. All received are orders subject to our current "General sales and delivery conditions ". Please always make sure that you follow the most recent issue of the Technical Data Sheet. It is available, along with other information, at our Technical Department or at www.betosan.cz

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